

A GLIDING PREVENTER FOR VEHICLE WHEELS

The present invention relates to a device to be fitted on a vehicle wheel of a predetermined size in order to increase the friction between the wheel and the road surface during winter conditions, comprising a belt intended to encircle the tread of the wheel and be held in place by means of flexible inner and outer side portions which, at least on the inner side of the wheel, is tightened by means of an elastic member.

Such a device is known from US 2,682,907, Figures 1 - 3. This known device is symmetrical about its middle plane and is made from a single piece of coarse canvas, which is folded over so that along either of the two outer edges a continuous pocket is formed which receives an elastic member in the form of a helical spring.

The middle portion of the device, which is supposed to constitute the belt to come into contact with the road surface, is by means of glue provided with a coating of aluminium oxide impregnated with abrasive particles in order to substantially increase the friction against the road surface.

The device according to US 2,682,907 is formed to cling quite closely to the vehicle wheel and cannot be put in place on the wheel when the wheel is mounted on a vehicle unless the wheel is raised from the ground. Since the device is symmetrical with flexible side portions having springs included on both sides, the device, e.g. when driving through a curve on a dry road surface, conceivably could creep off the wheel towards the inside thereof and impede the steering mechanism of the vehicle, possibly also damage brake lines. Once the device has moved to the inner side of the wheel, it cannot be removed without destroying the device or removing the wheel from the vehicle.

being less than 2.2 times the largest diameter of the wheel. Where the outer side portion is so narrow that its opening becomes larger than this, the opening can be limited by means of radially extending straps. These straps
5 may also be suitable as gripping means when the device is to be removed from the wheel after use.

A further purpose of the present invention is to provide a method for fitting a device of the type mentioned in the
10 introductory paragraph to a vehicle wheel while the wheel is mounted on the vehicle and possibly also is stuck in snow.

This is obtained according to the invention in that the inner side portion is fitted over the tread of the wheel to
15 the inside of the wheel along at least two thirds of the circumference of the wheel, preferably along as much as possible of that part of the circumference which does not rest against the road surface, whereupon the wheel is rotated by
20 means of the vehicle, whereby the remaining part of the inner side portion is moved to a position where it is permitted to assume its place on the inside of the wheel and pull the belt in place along the tread of the wheel.

25 Further advantageous features of the invention will appear from the following description of the exemplifying embodiments schematically shown on the dependent drawings, wherein:

30 Figures 1A,B,C are a perspective view of a vehicle wheel provided with a first device according to the invention seen from the outside, a perspective view of the wheel in Figure 1A seen from the inner side, and a partial radial cross-section through the wheel in Figure 1A, respectively;

35 Figures 2A,B,C are views similar to Figures 1A,B,C of a second embodiment of the invention, except that the wheel is removed from Figures 2A and 2B;